

## RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/242,657C  
Source: JFW16  
Date Processed by STIC: 12/26/2006

# ENTERED



Tfw16

RAW SEQUENCE LISTING DATE: 12/26/2006  
 PATENT APPLICATION: US/09/242,657C TIME: 14:52:45

Input Set : A:\Sequence List.txt  
 Output Set: N:\CRF4\12222006\I242657C.raw

3 <110> APPLICANT: JENSEN, PETER RUHDAL  
 4 HAMMER, KARIN  
 6 <120> TITLE OF INVENTION: ARTIFICIAL PROMOTER LIBRARIES FOR SELECTED ORGANISMS  
 7 AND PROMOTERS DERIVED FROM SUCH LIBRARIES  
 9 <130> FILE REFERENCE: 55411.2  
 11 <140> CURRENT APPLICATION NUMBER: 09/242,657C  
 12 <141> CURRENT FILING DATE: 1999-02-19  
 14 <150> PRIOR APPLICATION NUMBER: DK 886/96  
 15 <151> PRIOR FILING DATE: 1996-08-23  
 17 <150> PRIOR APPLICATION NUMBER: PCT/DK97/00342  
 18 <151> PRIOR FILING DATE: 1997-08-25  
 20 <160> NUMBER OF SEQ ID NOS: 62  
 22 <170> SOFTWARE: PatentIn Ver. 2.1  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 100  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Lactococcus lactis  
 29 <220> FEATURE:  
 30 <221> NAME/KEY: modified\_base  
 31 <222> LOCATION: (26)..(30)  
 32 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
 34 <220> FEATURE:  
 35 <221> NAME/KEY: modified\_base  
 36 <222> LOCATION: (46)..(59)  
 37 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
 39 <220> FEATURE:  
 40 <221> NAME/KEY: modified\_base  
 41 <222> LOCATION: (70)..(71)  
 42 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
 44 <220> FEATURE:  
 45 <221> NAME/KEY: modified\_base  
 46 <222> LOCATION: (73)  
 47 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
 49 <400> SEQUENCE: 1

W--> 50 cgggatcctt aagaatatta tgcatnnnn agtttattct tgacannnn nnnnnnnnnnt 60  
 W--> 51 ggtataatan nanagtactg ttaactgcag ctgaattcgg 100

54 <210> SEQ ID NO: 2  
 55 <211> LENGTH: 113  
 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Artificial Sequence  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA  
 62 <220> FEATURE:

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63 <221> NAME/KEY: modified\_base  
64 <222> LOCATION: (32)..(40)  
65 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
67 <220> FEATURE:  
68 <221> NAME/KEY: modified\_base  
69 <222> LOCATION: (61)..(74)  
70 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
72 <220> FEATURE:  
73 <221> NAME/KEY: modified\_base  
74 <222> LOCATION: (85)..(86)  
75 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
77 <220> FEATURE:  
78 <221> NAME/KEY: modified\_base  
79 <222> LOCATION: (88)  
80 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
82 <400> SEQUENCE: 2  
W--> 83 cgggatccaa gcttaatatt aattagcact cnnnnnnnnn gagtgctaat ttttttgaca 60  
W--> 84 nnnnnnnnnn nnnntggtat aatannanag tactgcagct gtctagaatt cg 113  
87 <210> SEQ ID NO: 3  
88 <211> LENGTH: 199  
89 <212> TYPE: DNA  
90 <213> ORGANISM: Saccharomyces cerevisiae  
92 <220> FEATURE:  
93 <221> NAME/KEY: modified\_base  
94 <222> LOCATION: (17)..(76)  
95 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
97 <220> FEATURE:  
98 <221> NAME/KEY: modified\_base  
99 <222> LOCATION: (83)..(121)  
100 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
102 <400> SEQUENCE: 3  
W--> 103 cagaattcgt gactcannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnnn 60  
W--> 104 nnnnnnnnnn nnnnnntata aannnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 12  
W--> 105 nctcttaagt gcaagtgact gcgaacattt tttcgttt 18  
106 ctaccaatca tggatcccg 19  
109 <210> SEQ ID NO: 4  
110 <211> LENGTH: 45  
111 <212> TYPE: DNA  
112 <213> ORGANISM: Pseudomonas putida  
114 <220> FEATURE:  
115 <221> NAME/KEY: modified\_base  
116 <222> LOCATION: (1)..(8)  
117 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
119 <220> FEATURE:  
120 <221> NAME/KEY: modified\_base  
121 <222> LOCATION: (13)..(31)  
122 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
124 <220> FEATURE:  
125 <221> NAME/KEY: modified\_base

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126 <222> LOCATION: (38)..(45)  
127 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
129 <400> SEQUENCE: 4  
W--> 130 nnnnnnnnnt grnnnnnnnnn nnnnnnnnnn ntatratnnn nnnnn 45  
133 <210> SEQ ID NO: 5  
134 <211> LENGTH: 60  
135 <212> TYPE: DNA  
136 <213> ORGANISM: Lactococcus lactis  
138 <400> SEQUENCE: 5  
139 cataccggag tttattcttg acagttccac ctgggttga tataatatct cagtactgtt 60  
142 <210> SEQ ID NO: 6  
143 <211> LENGTH: 60  
144 <212> TYPE: DNA  
145 <213> ORGANISM: Lactococcus lactis  
147 <400> SEQUENCE: 6  
148 catggcttag tttattcttg acagggtagt atcactgtga tataatagga cagtactgtt 60  
151 <210> SEQ ID NO: 7  
152 <211> LENGTH: 59  
153 <212> TYPE: DNA  
154 <213> ORGANISM: Lactococcus lactis  
156 <400> SEQUENCE: 7  
157 cataagttag tttattcttg acccgacgc ccccttga tataataagt agtactgtt 59  
160 <210> SEQ ID NO: 8  
161 <211> LENGTH: 60  
162 <212> TYPE: DNA  
163 <213> ORGANISM: Lactococcus lactis  
165 <400> SEQUENCE: 8  
166 catatacaag tttattcttg acactagtcg gccaaaatga tataataacct gagtactgtt 60  
169 <210> SEQ ID NO: 9  
170 <211> LENGTH: 60  
171 <212> TYPE: DNA  
172 <213> ORGANISM: Lactococcus lactis  
174 <400> SEQUENCE: 9  
175 catgctttac tttattcttg acaaaaccac cagctttgg tataatacgt gagaactgtt 60  
178 <210> SEQ ID NO: 10  
179 <211> LENGTH: 60  
180 <212> TYPE: DNA  
181 <213> ORGANISM: Lactococcus lactis  
183 <400> SEQUENCE: 10  
184 catgacggag tttattcttg acacaggtat ggacttatga tataataaaa cagtactgtt 60  
187 <210> SEQ ID NO: 11  
188 <211> LENGTH: 60  
189 <212> TYPE: DNA  
190 <213> ORGANISM: Lactococcus lactis  
192 <220> FEATURE:  
193 <221> NAME/KEY: modified\_base  
194 <222> LOCATION: (7)  
195 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
197 <220> FEATURE:

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198 <221> NAME/KEY: modified\_base  
199 <222> LOCATION: (13)  
200 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
202 <400> SEQUENCE: 11  
W--> 203 cattacntag ttnattcttg acagaattac gattcgctgg tataatataat cagtaactgtt 60  
206 <210> SEQ ID NO: 12  
207 <211> LENGTH: 58  
208 <212> TYPE: DNA  
209 <213> ORGANISM: Lactococcus lactis  
211 <400> SEQUENCE: 12  
212 cattgtgtag tttattcttg acagctatga gtcaatttg tataataaca gtactcag 58  
215 <210> SEQ ID NO: 13  
216 <211> LENGTH: 59  
217 <212> TYPE: DNA  
218 <213> ORGANISM: Lactococcus lactis  
220 <400> SEQUENCE: 13  
221 cattctggag tttattcttg accgctcagt atgcagtggt ataatagtagtac agtactgtt 59  
224 <210> SEQ ID NO: 14  
225 <211> LENGTH: 58  
226 <212> TYPE: DNA  
227 <213> ORGANISM: Lactococcus lactis  
229 <400> SEQUENCE: 14  
230 cattttgcag tttattcttg acattgtgtg cttcggtgt ataataactaa gtactgtt 58  
233 <210> SEQ ID NO: 15  
234 <211> LENGTH: 58  
235 <212> TYPE: DNA  
236 <213> ORGANISM: Lactococcus lactis  
238 <400> SEQUENCE: 15  
239 catcgcttag tttttcttga caggagggat ccgggttcatataatagttt gtactgtt 58  
242 <210> SEQ ID NO: 16  
243 <211> LENGTH: 60  
244 <212> TYPE: DNA  
245 <213> ORGANISM: Lactococcus lactis  
247 <400> SEQUENCE: 16  
248 catttgcttag tttattcttg acatgaagcg tgcctaatttg tatattactt gagtaactgtt 60  
251 <210> SEQ ID NO: 17  
252 <211> LENGTH: 60  
253 <212> TYPE: DNA  
254 <213> ORGANISM: Lactococcus lactis  
256 <220> FEATURE:  
257 <221> NAME/KEY: modified\_base  
258 <222> LOCATION: (32)  
259 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
261 <400> SEQUENCE: 17  
W--> 262 catgggttag tttattcttg acagtgcggc cnggggctga tatcatagca gagtaactatt 60  
265 <210> SEQ ID NO: 18  
266 <211> LENGTH: 59  
267 <212> TYPE: DNA  
268 <213> ORGANISM: Lactococcus lactis

## RAW SEQUENCE LISTING

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Input Set : A:\Sequence List.txt

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270 <400> SEQUENCE: 18  
271 cattaccgag ttatttcttg acaccgtta tcggggttgt ataatactat agtactgtt 59  
274 <210> SEQ ID NO: 19  
275 <211> LENGTH: 60  
276 <212> TYPE: DNA  
277 <213> ORGANISM: Lactococcus lactis  
279 <400> SEQUENCE: 19  
280 catgttaggag ttatttcttg acagattagt taggggtgg tataatatct cagtaactgtt 60  
283 <210> SEQ ID NO: 20  
284 <211> LENGTH: 60  
285 <212> TYPE: DNA  
286 <213> ORGANISM: Lactococcus lactis  
288 <400> SEQUENCE: 20  
289 catggtaag ttatttcttc acactatctg ggcccgatgg tataataagt gactactgtt 60  
292 <210> SEQ ID NO: 21  
293 <211> LENGTH: 59  
294 <212> TYPE: DNA  
295 <213> ORGANISM: Lactococcus lactis  
297 <400> SEQUENCE: 21  
298 cttaggcagt ttatttcttga catgttagtga gggggctggt ataatcacat agtactgtt 59  
301 <210> SEQ ID NO: 22  
302 <211> LENGTH: 60  
303 <212> TYPE: DNA  
304 <213> ORGANISM: Lactococcus lactis  
306 <400> SEQUENCE: 22  
307 cattctacag ttatttcttg acattgcact gtccccctgg tataataact atacatgcat 60  
310 <210> SEQ ID NO: 23  
311 <211> LENGTH: 60  
312 <212> TYPE: DNA  
313 <213> ORGANISM: Lactococcus lactis  
315 <400> SEQUENCE: 23  
316 catggggccg ttatttcttg acaacggcga gcagacctgg tataataata tagtactgtt 60  
319 <210> SEQ ID NO: 24  
320 <211> LENGTH: 59  
321 <212> TYPE: DNA  
322 <213> ORGANISM: Lactococcus lactis  
324 <400> SEQUENCE: 24  
325 catcgtaag ttatttcttga catctcaggg gggacgtggt ataataactg agtactgtt 59  
328 <210> SEQ ID NO: 25  
329 <211> LENGTH: 60  
330 <212> TYPE: DNA  
331 <213> ORGANISM: Lactococcus lactis  
333 <220> FEATURE:  
334 <221> NAME/KEY: modified\_base  
335 <222> LOCATION: (29)..(30)  
336 <223> OTHER INFORMATION: "n" may be a, t, c, g, other or unknown  
338 <400> SEQUENCE: 25  
W--> 339 catcctgttag ttatttcttg acacacgttnn ttagctgtgg tataatagga gagtactgtt 60  
342 <210> SEQ ID NO: 26

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/26/2006  
PATENT APPLICATION: US/09/242,657C TIME: 14:52:46

Input Set : A:\Sequence List.txt  
Output Set: N:\CRF4\12222006\I242657C.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 26,27,28,29,30,46,47,48,49,50,51,52,53,54,55,56,57,58,59,70  
Seq#:1; N Pos. 71,73  
Seq#:2; N Pos. 32,33,34,35,36,37,39,39,40,61,62,63,64,65,66,67,68,69,70,71  
Seq#:2; N Pos. 72,73,74,85,86,88  
Seq#:3; N Pos. 17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36  
Seq#:3; N Pos. 37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56  
Seq#:3; N Pos. 57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76  
Seq#:3; N Pos. 83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101  
Seq#:3; N Pos. 102,103,104,105,106,107,108,109,110,111,112,113,114,115,116  
Seq#:3; N Pos. 117,118,119,120,121  
Seq#:4; N Pos. 1,2,3,4,5,6,7,8,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27  
Seq#:4; N Pos. 28,29,30,31,38,39,40,41,42,43,44,45  
Seq#:11; N Pos. 7,13  
Seq#:17; N Pos. 32  
Seq#:25; N Pos. 29,30  
Seq#:60; N Pos. 16,17,18,19,20,21,22,23,24,25,26,27,28,29,40,41,43  
Seq#:61; N Pos. 10,11,12,13,14,15,16,17,18  
Seq#:62; N Pos. 10,11,12,13,14,15,16,17,18,39,40,41,42,43,44,45,46,47,48,49  
Seq#:62; N Pos. 50,51,52,63,64,66

VERIFICATION SUMMARY  
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Input Set : A:\Sequence List.txt  
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L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60  
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60  
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60  
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120  
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0  
L:726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0  
L:755 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0  
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:60